

ABOUT *EUREKA MATH*

Created by the nonprofit Great Minds, *Eureka Math* helps teachers deliver unparalleled math instruction that provides students with a deep understanding of and fluency in math. Crafted by teachers and math scholars, the curriculum carefully sequences the mathematical progressions to maximize coherence from Prekindergarten through Precalculus—a principle tested and proven to be essential in students’ mastery of math.

Teachers and students using *Eureka Math* find the trademark “Aha!” moments in *Eureka Math* to be a source of joy and inspiration, lesson after lesson, year after year.

ALIGNED

Eureka Math is the only curriculum found by [EdReports.org](https://www.edreports.org) to align fully with the Common Core State Standards for Mathematics for all grades, Kindergarten through Grade 8. Great Minds offers detailed analyses that demonstrate how each grade of *Eureka Math* aligns with specific state standards. Access these free alignment studies at [greatminds.org/state-studies](https://www.greatminds.org/state-studies).

DATA

Schools and districts nationwide are experiencing student growth and impressive test scores after using *Eureka Math*. See their stories and data at [greatminds.org/data](https://www.greatminds.org/data).

FULL SUITE OF RESOURCES

As a nonprofit, Great Minds offers the *Eureka Math* curriculum as PDF downloads for free, noncommercial use. Access the free PDFs at [greatminds.org/resources](https://www.greatminds.org/resources).

The teacher–writers who created the curriculum have also developed essential resources, available only from Great Minds, including the following:





- Printed material in English and Spanish
- Digital resources
- Professional development
- Classroom tools and manipulatives
- Teacher support materials
- Parent resources

Florida Benchmarks for Excellent Student Thinking (B.E.S.T.) Standards in Mathematics Correlation to *Eureka Math*[®]

GRADE 6 MATHEMATICS

The majority of the Grade 6 Florida B.E.S.T. Mathematics Standards are fully covered by the Grade 6 *Eureka Math* curriculum. A small number of standards from Number Sense and Operations and Algebraic Reasoning will require the use of *Eureka Math* content from another grade level. A detailed analysis of alignment is provided in the table below.

INDICATORS

-  **GREEN** indicates the Florida standard is addressed in *Eureka Math*.
-  **YELLOW** indicates the Florida standard may not be completely addressed in *Eureka Math*.
-  **RED** indicates the Florida standard is not addressed in *Eureka Math*.
-  **BLUE** indicates there is a discrepancy between the grade level at which this standard is addressed in Florida and in *Eureka Math*.

Strand	Benchmark	Aligned Components of <i>Eureka Math</i>
Number Sense and Operations	Standard: MA.6.NSO.1 Extend knowledge of numbers to negative numbers and develop an understanding of absolute value.	
	MA.6.NSO.1.1 Extend previous understanding of numbers to define rational numbers. Plot, order and compare rational numbers.	G6 M3 Topic A: Understanding Positive and Negative Numbers on the Number Line G6 M3 Topic B: Order and Absolute Value G6 M3 Topic C: Rational Numbers and the Coordinate Plane
	MA.6.NSO.1.2 Given a mathematical or real-world context, represent quantities that have opposite direction using rational numbers. Compare them on a number line and explain the meaning of zero within its context.	G6 M3 Lesson 4: The Opposite of a Number G6 M3 Lesson 5: The Opposite of a Number's Opposite G6 M3 Lesson 6: Rational Numbers on a Number Line G6 M3 Lesson 7: Ordering Integers and Other Rational Numbers G6 M3 Lesson 8: Ordering Integers and Other Rational Numbers G6 M3 Lesson 9: Comparing Integers and Other Rational Numbers G6 M3 Lesson 10: Writing and Interpreting Inequality Statements Involving Rational Numbers

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	<p>MA.6.NSO.1.3</p> <p>Given a mathematical or real-world context, interpret the absolute value of a number as the distance from zero on a number line. Find the absolute value of rational numbers.</p>	<p>G6 M3 Lesson 11: Absolute Value—Magnitude and Distance</p> <p>G6 M3 Lesson 12: The Relationship Between Absolute Value and Order</p>
	<p>MA.6.NSO.1.4</p> <p>Solve mathematical and real-world problems involving absolute value, including the comparison of absolute value.</p>	<p>G6 M3 Lesson 12: The Relationship Between Absolute Value and Order</p> <p>G6 M3 Lesson 13: Statements of Order in the Real World</p>
<p>Standard: MA.6.NSO.2 Add, subtract, multiply and divide positive rational numbers.</p>		
	<p>MA.6.NSO.2.1</p> <p>Multiply and divide positive multi-digit numbers with decimals to the thousandths, including using a standard algorithm with procedural fluency.</p>	<p>G6 M2 Topic B: Multi-Digit Decimal Operations—Adding, Subtracting and Multiplying</p> <p>G6 M2 Topic C: Dividing Whole Numbers and Decimals</p>
	<p>MA.6.NSO.2.2</p> <p>Extend previous understanding of multiplication and division to compute products and quotients of positive fractions by positive fractions, including mixed numbers, with procedural fluency.</p>	<p>G6 M2 Topic A: Dividing Fractions by Fractions</p> <p>G6 M2 Topic B: Multi-Digit Decimal Operations—Adding, Subtracting and Multiplying</p>

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	<p>MA.6.NSO.2.3</p> <p>Solve multi-step real-world problems involving any of the four operations with positive multi-digit decimals or positive fractions, including mixed numbers.</p>	<p>G6 M2 Topic A: Dividing Fractions by Fractions</p> <p>G6 M2 Topic B: Multi-Digit Decimal Operations—Adding, Subtracting and Multiplying</p> <p>G6 M2 Topic C: Dividing Whole Numbers and Decimals</p>
	<p>Standard: MA.6.NSO.3 Apply properties of operations to rewrite numbers in equivalent forms.</p>	
	<p>MA.6.NSO.3.1</p> <p>Given a mathematical or real-world context, find the greatest common factor and least common multiple of two whole numbers.</p>	<p>G6 M2 Lesson 18: Least Common Multiple and Greatest Common Factor</p>
	<p>MA.6.NSO.3.2</p> <p>Rewrite the sum of two composite whole numbers having a common factor as a common factor multiplied by the sum of two whole numbers.</p>	<p>G6 M4 Lesson 17: Write Expressions in Which Letters Stand for Numbers</p> <p>G6 M4 Lesson 18: Writing and Evaluating Expressions—Addition and Subtraction</p>
	<p>MA.6.NSO.3.3</p> <p>Evaluate positive rational numbers and integers with natural number exponents.</p>	<p>G6 M4 Topic B: Special Notations of Operations</p>

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	<p>MA.6.NSO.3.4</p> <p>Express composite whole numbers as a product of prime factors with natural number exponents.</p>	G6 M4 Lesson 5: Exponents
	<p>MA.6.NSO.3.5</p> <p>Rewrite positive rational numbers in different but equivalent forms, including fractions, terminating decimals and percentages.</p>	<p>G6 M2 Topic B: Multi-Digit Decimal Operations—Adding, Subtracting and Multiplying</p> <p>G6 M1 Topic D: Percent</p>
	<p>Standard: MA.6.NSO.4 Extend understanding of operations with integers.</p>	
	<p>MA.6.NSO.4.1</p> <p>Apply and extend previous understanding of operations with whole numbers to add and subtract integers with procedural fluency.</p>	G7 M2 Topic A: Addition and Subtraction of Integers and Rational Numbers
	<p>MA.6.NSO.4.2</p> <p>Apply and extend previous understanding of operations with whole numbers to multiply and divide integers with procedural fluency.</p>	G7 M2 Topic B: Multiplication and Division of Integers and Rational Numbers
Algebraic Reasoning	<p>Standard: MA.6.AR.1 Apply previous understanding of arithmetic expressions to algebraic expressions.</p>	
	<p>MA.6.AR.1.1</p> <p>Given a mathematical or real-world context, translate written descriptions into algebraic expressions and translate algebraic expressions into written descriptions.</p>	G6 M4 Topic B: Special Notations of Operations

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	<p>MA.6.AR.1.2</p> <p>Translate a real-world written description into an algebraic inequality in the form of $x > 0$, $x < 0$, $x \geq 0$, $x \leq 0$. Represent the inequality on a number line.</p>	<p>G6 M4 Lesson 33: From Equations to Inequalities</p> <p>G6 M4 Lesson 34: Writing and Graphing Inequalities in Real-World Problems</p>	
	<p>MA.6.AR.1.3</p> <p>Evaluate algebraic expressions using substitution and order of operations.</p>	<p>G6 M4 Topic F: Writing and Evaluating Expressions and Formulas</p>	
	<p>MA.6.AR.1.4</p> <p>Apply the properties of operations to generate equivalent algebraic expressions with integer coefficients.</p>	<p>G6 M4 Topic D: Expanding, Factoring and Distributing Expressions</p>	
	<p>Standard: MA.6.AR.2 Develop an understanding for solving equations and inequalities. Write and solve one-step equations in one variable.</p>		
	<p>MA.6.AR.2.1</p> <p>Given an equation or inequality and a specified set of integer values, determine which values make the equation or inequality true or false.</p>	<p>G6 M4 Topic G: Solving Equations</p> <p>G6 M4 Topic H: Applications of Equations</p>	
	<p>MA.6.AR.2.2</p> <p>Write and solve one-step equations in one variable within a mathematical or real-world context using addition and subtraction, where all terms and solutions are integers.</p>	<p>G6 M4 Topic G: Solving Equations</p> <p>G7 M2 Topic C: Applying Operations with Rational Numbers to Expressions and Equations</p>	

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	<p>MA.6.AR.2.3</p> <p>Write and solve one-step equations in one variable within a mathematical or real-world context using multiplication and division, where all terms and solutions are integers.</p>	G6 M4 Topic H: Applications of Equations
	<p>MA.6.AR.2.4</p> <p>Determine the unknown decimal or fraction in an equation involving any of the four operations, relating three numbers, with the unknown in any position.</p>	<p>G6 M4 Topic G: Solving Equations</p> <p>G6 M4 Topic H: Applications of Equations</p>
<p>Standard: MA.6.AR.3 Understand ratio and unit rate concepts and use them to solve problems.</p>		
	<p>MA.6.AR.3.1</p> <p>Given a real-world context, write and interpret ratios to show the relative sizes of two quantities using appropriate notation: a/b, a to b, $a:b$, where $b \neq 0$.</p>	G6 M1 Topic A: Representing and Reasoning About Ratios
	<p>MA.6.AR.3.2</p> <p>Given a real-world context, determine a rate for a ratio of quantities with different units. Calculate and interpret the corresponding unit rate.</p>	G6 M1 Topic C: Unit Rates
	<p>MA.6.AR.3.3</p> <p>Extend previous understanding of fractions and numerical patterns to generate or complete a two- or three-column table to display equivalent part-to-part ratios and part-to-part-to-whole ratios.</p>	<p>G6 M1 Lesson 9: Tables of Equivalent Ratios</p> <p>G6 M1 Lesson 10: The Structure of Ratio Tables—Additive and Multiplicative</p> <p>G6 M1 Lesson 11: Comparing Ratios Using Ratio Tables</p> <p>G6 M1 Lesson 12: From Ratio Tables to Double Number Line Diagrams</p>

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	<p>MA.6.AR.3.4</p> <p>Apply ratio relationships to solve mathematical and real-world problems involving percentages using the relationship between two quantities.</p>	G6 M1 Topic D: Percent
	<p>MA.6.AR.3.5</p> <p>Solve mathematical and real-world problems involving ratios, rates and unit rates, including comparisons, mixtures, ratios of lengths and conversions within the same measurement system.</p>	G6 M1 Lesson 23: Problem Solving Using Rates, Unit Rates and Conversions
Geometric Reasoning	<p>Standard: MA.6.GR.1 Apply previous understanding of the coordinate plane to solve problems.</p>	
	<p>MA.6.GR.1.1</p> <p>Extend previous understanding of the coordinate plane to plot rational number ordered pairs in all four quadrants and on both axes. Identify the x- or y-axis as the line of reflection when two ordered pairs have an opposite x- or y-coordinate.</p>	G6 M3 Topic C: Rational Numbers and the Coordinate Plane
	<p>MA.6.GR.1.2</p> <p>Find distances between ordered pairs, limited to the same x-coordinate or the same y-coordinate, represented on the coordinate plane.</p>	G6 M3 Lesson 18: Distance on the Coordinate Plane

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	<p>MA.6.GR.1.3</p> <p>Solve mathematical and real-world problems by plotting points on a coordinate plane, including finding the perimeter or area of a rectangle.</p>	G6 M5 Topic B: Polygons on the Coordinate Plane	
	<p>Standard: MA.6.GR.2 Model and solve problems involving two-dimensional figures and three-dimensional figures.</p>		
	<p>MA.6.GR.2.1</p> <p>Derive a formula for the area of a right triangle using a rectangle. Apply a formula to find the area of a triangle.</p>	G6 M5 Topic A: Area of Triangles, Quadrilaterals, and Polygons	
	<p>MA.6.GR.2.2</p> <p>Solve mathematical and real-world problems involving the area of quadrilaterals and composite figures by decomposing them into triangles or rectangles.</p>	G6 M5 Lesson 6: Area in the Real World	
	<p>MA.6.GR.2.3</p> <p>Solve mathematical and real-world problems involving the volume of right rectangular prisms with positive rational number edge lengths using a visual model and a formula.</p>	G6 M5 Topic C: Volume of Right Rectangular Prisms	
	<p>MA.6.GR.2.4</p> <p>Given a mathematical or real-world context, find the surface area of right rectangular prisms and right rectangular pyramids using the figure's net.</p>	G6 M5 Topic D: Nets and Surface Area	

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Data Analysis and Probability	Standard: MA.6.DP.1 Develop an understanding of statistics and determine measures of center and measures of variability. Summarize statistical distributions graphically and numerically.	
	MA.6.DP.1.1 Recognize and formulate a statistical question that would generate numerical data.	G6 M6 Topic A: Understanding Distributions
	MA.6.DP.1.2 Given a numerical data set within a real-world context, find and interpret mean, median, mode and range.	G6 M6 Topic B: Summarizing a Distribution that is Approximately Symmetric Using the Mean and Mean Absolute Deviation
	MA.6.DP.1.3 Given a box plot within a real-world context, determine the minimum, the lower quartile, the median, the upper quartile and the maximum. Use this summary of the data to describe the spread and distribution of the data.	G6 M6 Lesson 13: Describing Variability Using the Interquartile Range G6 M6 Lesson 14: Summarizing a Distribution Using a Box Plot G6 M6 Lesson 15: More Practice with Box Plots G6 M6 Lesson 16: Understanding Box Plots
	MA.6.DP.1.4 Given a histogram or line plot within a real-world context, qualitatively describe and interpret the spread and distribution of the data, including any symmetry, skewness, gaps, clusters, outliers and the range.	G6 M6 Topic D: Summarizing and Describing Distributions

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	<p>MA.6.DP.1.5</p> <p>Create box plots and histograms to represent sets of numerical data within real-world contexts.</p>	<p>G6 M6 Topic A: Understanding Distributions</p> <p>G6 M6 Topic C: Summarizing a Distribution that is Skewed Using the Median and the Interquartile Range</p>
	<p>MA.6.DP.1.6</p> <p>Given a real-world scenario, determine and describe how changes in data values impact measures of center and variation.</p>	<p>G6 M6 Lesson 12: Describing the Center of a Distribution Using the Median</p> <p>G6 M6 Lesson 13: Describing Variability Using the Interquartile Range (IQR)</p> <p>G6 M6 Lesson 14: Summarizing a Distribution Using a Box Plot</p>